

Name \_\_\_\_\_

## Chapter 9.1: Cellular Respiration

Read pages 250-253. Then answer the questions found at the end of the section.

1a. Why do all organisms need food?

1b. Why do macromolecules differ in the amount of energy they contain?

2a. Write the overall reaction for cellular respiration

2b. How does the process of cellular respiration maintain homeostasis at the cellular level?

3a. In what ways are cellular respiration and photosynthesis considered opposite processes?

3b. How is the chemical energy in glucose similar to money in a savings account?

4. The Greek word *glukus* means “sweet,” and Latin word *lysis* refers to a process of loosening or decomposing. Based on this information, write a definition for the word *glycolysis*.